

Smectite clay based rheological additive

GENERAL INFORMATION

BENTONE WBS rheological additive is a beneficiated, high purity smectite clay for waterborne coatings and related systems.

PHYSICAL PROPERTIES

Composition	beneficiated smectite clay
Solids Content	100 % powder
Colour	Creamy white
Specific Gravity	ca. 2.5 kg/l
Particle Size	98% < 53 µm (270 mesh)

APPLICATIONS

Waterborne decorative latex paints and similar systems

Gypsum plasters

Building materials such as mortars and renderings based on lime, cement and gypsum

KEY PROPERTIES

Recommended use level of BENTONE WBS

- Prevents settling of pigments and fillers
- Provides low- and mid-shear viscosity
- Provides enhanced sag and slump resistance
- Improves workability
- Compatible with other thickeners

INCORPORATION

BENTONE WBS additive is very easy to process. It can be used either as a pre-gel or powder. A pre-gel can be prepared as follows.

- Add BENTONE WBS gradually, with stirring, to a vessel containing only water.
- Mix at highest practical speed for 10 minutes.

In this way, 5 % to 10% pre-gels can be made. Typically a 8% pre-gel is recommended. This can then be added to the formulation as convenient.

BENTONE WBS can also be incorporated as a powder at the start of the mill-base. It should be allowed to wet-out and swell under shear in water before the other ingredients are added.

LEVELS OF USE

Recommended use level of BENTONE WBS

Typical dosage of BENTONE WBS depends on the nature of the system. Anywhere between 0.2 % and 3.0% by weight on the total system might be required. For initial screening 0.5-1.0% is recommended.

BENTONE WBS can be combined with other rheological additives to optimise the flow and application behaviour of waterborne systems.

HANDLING AND SAFETY

More detailed information on handling and safety for each product is included in the relevant material safety data sheet, available for each product.

STORAGE RECOMMENDATIONS

Store in a dry location.

SHELF LIFE

BENTONE WBS has a shelf life of minimum 4 (four) years from the date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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